# CULPEPER ENGINEERING, P.C. P.O. BOX 733

LOCUST GROVE, VIRGINIA 22508 PHONE: 540 423-9706

NORTHERN

FAX: 540 423-1534

September 9, 2011

Anna Westernik
Dept. of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Re:

Reissuance Locust Grove Town Center

VA0091961

Dear Ms. Westernik,

Enclosed are the required signed forms for the reissuance of Locust Grove Town Center's VPDES, VA0091961. In accordance with your reissuance reminder letter, the provided forms include: Form 2A, the VPDES Application Addendum and the Sludge Application Form. A copy of the Public Notice Billing Form has also been provided. The necessary topographic maps and plant diagrams (per Sludge Application) are included.

I have provided all of the completed forms on a CD as you requested. If you have any questions or concerns with the provided forms and support documentation, please do not hesitate to contact me or the Dotson's.

Thank you.

Sincerely

cc:

Rebecca S. Tolliver

Kenneth & Lora Dotson

# CULPEPER ENGINEERING, P.C. P.O. BOX 733

# LOCUST GROVE, VIRGINIA 22508 PHONE: 540 423-9706

FAX: 540 423-1534

October 13, 2011

Anna Westernik Department of Environmental Quality 13901 Crown Court Woodbridge, VA 22193 DEQ-NRO

Re: Locust Grove Town Center Permit Reissuance – VA0091961

Dear Me. Westernik,

In response to your emailed comments to Kenneth and Lora Dotson regarding the submitted application for reissuance of the LGTC VPDES Permit, the following information is provided.

You indicated that the permit addendum form states that all flow is from domestic
connections and noted that there are small industrial users present such as restaurants. You
noted that this is a mixed flow from domestic and commercial connections and asked if an
estimate of "how much flow can be considered sewage and how much wastewater" could
be provided.

As noted on the form, the facility serves a commercial operation which includes a convenience store, offices, stores, churches and restaurants. There are no "industrial" users which generate wastewater flows that would be characterized as significant industrial users. The users are commercial establishments and all of the flows are generated from bathroom facilities located in the commercial establishments and any routine cleaning of establishments and/or flows associated with food preparation, dishwashing and routine cleaning/management of a restaurant facility. The generated waste water is mixed flow from commercial establishments and may generally be characterized as bathroom/kitchen and cleaning waste flows. The form has been revised to note there are no dwelling units served.

The generated flows are from uses that are similar in nature to domestic uses (bathroom/cooking/cleaning), however there is no showering to provide dilution. The strength may be higher than normal domestic waste; however, the waste constituents are

characterized as commercial flows not industrial uses. There are no industrial activities at the site.

You requested an estimation of "sewage flow" and "wastewater flow". It is assumed you are asking for a breakdown of bathroom waste vs. other (primarily restaurant) waste. This detailed breakdown of waste source generation is not monitored. It may be assumed that numerous establishments (stores/offices/other non-restaurant establishments) are primarily generators of bathroom waste. The convenience store includes a deli counter for take-out food and has public bathrooms; and the restaurants are mixed use (bathroom use and kitchen use). Assuming 50% of water use at the site is restaurant demand which is mixed (bathroom & kitchen) flow, an estimation of the % of restaurant flow generation which is bathroom waste volume as opposed to kitchen waste volume is estimated to be 50%. This is an estimation based on broad assumptions of activity and does not represent any actual flow monitoring. Basically this assumption would indicate 25% of the waste stream may be other than bathroom waste associated with commercial kitchens.

2. The bacteriological results summary is provided. The results are from submitted DMRs. The reported result on the DMRs were averaged. The "units" has been revised on sheet 6 of 21 to indicate "N/100 ml" rather than geometric mean. An average of the reported results was provided as the average value with all "<" results used as the reported value (if a <1 was reported, 1 was used for averaging). The maximum reported result was identified as the maximum observed report. The summary provides the reported result and the values assumed for averaging. The number of samples has been changed to 25.

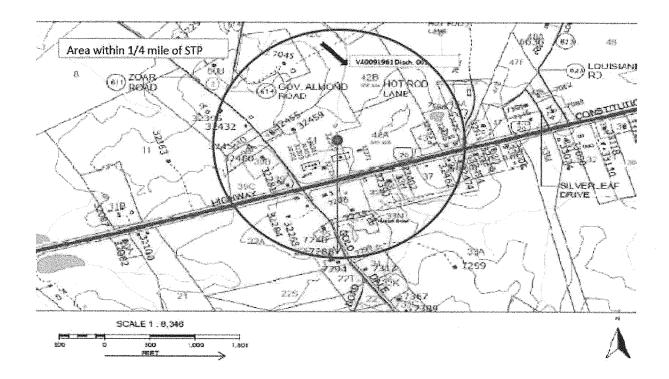
### LOCUST GROVE TOWN CENTER E-Coli

				#
Year	Month	Result	Value for	Monthly
			Averaging	Results
2010	June	8.1	8.1	3
	July	23.5	23.5	2
	August	<1.7	1.7	2
	September	<1	1	2
	October	20.8	20.8	2
	December	7.9	7.9	2
2011	Jan	<1	1	2
	Feb	<7.3	7.3	2
	March	<1	1	2
	April	5	5	2
	May	<3.2	3.2	2
	June	2.2	2.2	2
	Average		6.89	
	Max		23.5	
	Total samples			25

3. The time frame used for reporting average BOD and TSS results was June 2010 – July 2011. A summary is provided. The form has been corrected for averaging of BOD results. Per the permit "<QL" values have been averaged as 0. The reported QL had previously been used. The max TSS reported has been corrected as the max average was previously reported. A summary is provided.

		Locust	Grove Tow	n Centei	•	
		cBOD	cBOD for	cBOD	TSS	TSS
		Avg	Averaging	Max	Avg	Max
2010	June	<2	0	<2	5.5	5.5
	July	<ql< td=""><td>0</td><td><ql< td=""><td>4.4</td><td>4.4</td></ql<></td></ql<>	0	<ql< td=""><td>4.4</td><td>4.4</td></ql<>	4.4	4.4
	August	2	2	2	1.6	1.6
	September	<2	0	<2	7.1	7.1
	October	<2	0	<2	4.1	4.1
	December	<ql< td=""><td>0</td><td><ql< td=""><td>1.7</td><td>1.7</td></ql<></td></ql<>	0	<ql< td=""><td>1.7</td><td>1.7</td></ql<>	1.7	1.7
2011	Jan	8	8	8	9.6	9.6
	Feb	9	9	9	8.8	8.8
	March	2	2	2	3.8	3.8
	April	5	5	5	10	19
	May	10	10	10	13.3	25
	June	<ql< td=""><td>0</td><td><ql< td=""><td>1.9</td><td>1.9</td></ql<></td></ql<>	0	<ql< td=""><td>1.9</td><td>1.9</td></ql<>	1.9	1.9
	Average		3		6.0	
	Max			10		25

4. The tax map attachment was provided to show adjacent/local parcels. It is assumed that all locations indicating a structure are provided with a well. The provided map (tax map) was presented as the available public record which identifies properties that may have a well. The only onsite well was identified on the provided aerial map. Below is a copy of the provided tax map with the area within ¼ mile of the plant (~1,320') identified. A copy (PDF) is also attached.



5. The DMT was determined based on pump out information provided by the owner. As noted in the application, the facility removes approximately 3,000 gallons from the site quarterly. Assuming 12,000 gallons per year, a DMT value was estimated to be 0.5 DMT annually. The 12,000 gallons would be a wet tonnage of 50 WT/yr. The material is from the septic tanks, contact tank and plants. A concentration of 1% was assumed. This value is conservative as 1% may be higher than the actual concentration of removed material. As an additional measure, conversion from DT (0.5 DT/Yr) to DMT which would result in a DMT value of 0.45 DMT was rounded to 0.5. DMT. The conservative estimate of removed material allows for additional pumping as required.

As noted above the following attachments are provided for your use:

- 1. Revised permit addendum;
- 2. Revised page 6 of Form 2A;
- 3. Tax map showing ¼ mile from STP.

If you have any additional questions, or require any additional information please do not hesitate to contact me.

Sincerely,

Rebecca S. Tolliver, P.E.

cc: Kenneth & Lora Dotson

# VPDES PERMIT APPLICATION ADDENDUM

	Entity to whom permit is to be issued: Kenneth & Lo Who will be legally responsible for the wastewater tre may not be the facility or property owner.			and	compl	iance v	with th	ne perm	it? This may or
2.	Is this facility located within city or town boundaries?	Yes	. 1	No _	_X				
3.	Please provide the tax map parcel number for the land	l where the	disch	arge	is loca	ited: ]	Г.М. 2	2-42B	Orange Co.
4.	What is the design average flow of this facility in mill	lion gallon	s per o	day (	MGD)	? 0.00	)45 M	<u>GD</u>	
5.	In addition to the design flow, should the permit be w	vritten witl	ı limit	s for	any ot	her dis	scharge	e flow	tiers? Yes
	If yes, please identify the other flow tiers in MGD: 0. Please consider such issues as if you plan to expand of Flow is considerably greater than your current flow?					ive yea	ırs or i	f your :	facility'
6.	Nature of operations generating wastewater: <u>Commare no dwelling units served by the facility</u>	nercial dev	elopm	nent (	retail/o	office/	service	e – rest	aurant). There
	% of flow from domestic connections/sources Th	ere are no	dwell	ing u	nits se	rved b	y the f	acility	
	100 % of flow from non-domestic connections/source (retail/office/service/restaurants). Generated wastes are operations associated with the commercial establishment	e from fac							
7.	Mode of discharge: X Continuous	_ Intermit	ent _	·····	Se	asona	l		
	Describe frequency and duration of intermittent and se	easonal dis	charg	es: N	A				
3.	Identify the characteristics of the receiving stream at t	he point ju	ıst abo	ove		,			
Γ			<del></del>		Dutfall	Numb	er		
	Stream Characteristics	001				Tunio		1	
r	Never dry, permanent stream					-	1	<del>                                     </del>	
H	Usually flowing, sometimes dry, intermittent stream	X			+	+	+	-	
$\vdash$	Wet-weather flow, often dry, ephemeral stream	7.			+	+		+	1
+						<del> </del>	+		-
+	Usually or always dry, effluent- dependant stream					-			
-	Lake or pond at or below discharge point								
L	Other:								
	NOTE: Stream appears to be spring fed. This propose above the Lake of the Woods Lake.	d discharg	e to an	ı UT	to Flat	Run a	and is	approx	imately 2 miles
€.	Approval date(s) if applicable:								
	O & M Manual: 12-17-10 Sludge/Solids	Managem	ent Pl	an 12	2-17- <u>1</u>	0 Slu	dge ap	plication	on provided
	Have there been changes in your operation or proceed Approved Manual included relocation of alum feed								



# Disclaimer

This is an updated PDF document that allows you to type your information directly into the form and to save the completed form. This form is the most updated form currently available.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

# Instructions:

- 1. Type in your information
- 2. Save file (if desired)
- 3. Print the completed form
- 4. Sign and date the printed copy
- 5. Mail it to the directed contact.

ocust Grove Town Center STP - VA0091961

FORM 2A

**NPDES** 

# NPDES FORM 2A APPLICATION OVERVIEW

### **APPLICATION OVERVIEW**

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

### BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that:
    - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

# ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

Locust Grove Town Center STP - VA0091961

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PAR	T A. BASIC APPI	ICATION II	NFORMATION FOR ALL	. APPLICANTS:		
All tı	eatment works mus	t complete qu	uestions A.1 through A.8 o	f this Basic Applicatio	n Information pa	acket.
A.1.	Facility Information	1.				
	Facility name	Locust Gro	ve Town Center STP	POPUNDANIA TRANSITA KONTO COMPONANTA PARTIA PARTIA TRANSITA PARTIA PARTIA PARTIA PARTIA PARTIA PARTIA PARTIA P		
	Mailing Address	33225 Con	stitution Hwy., Locust Gr	ove. VA 22508		
	Contact person	Kenneth &	Lora Dotson			
	Title	Owners				
	Telephone number	(540) 840-5	5335	iji kalada kalada sa yaya waxay waxay sa ya ka		
	Facility Address (not P.O. Box)	32301 Con	stitution Hwy., Locust Gro	ove. VA 22508		
<b>1.2.</b>		on. If the app	licant is different from the at	pove, provide the followi	ng:	
	Applicant name	Same				
	Mailing Address			Manyana Candanasa Aspar Candanasa (A Candanas Aspara) in Salama (A Candanas Aspara) in Antonio Aspara (A Candanas Aspara Aspara Aspara (A Candanas Aspara Aspara Aspara Aspara (A Candanas Aspara Aspara Aspara Aspara Aspara Aspara (A Candanas Aspara Aspara Aspara Aspara Aspara Aspara Aspara Aspara (A Candanas Aspara A	na di Paris Paris di Angelonia di Angelong ang ang ang ang ang ang ang ang ang a	
	Contact person			THE CHARLES AND AN AREA COMMENTS OF THE CHARLES AND AN AREA COMMENTS OF THE CHARLES AND	AND THE CONTROL OF T	
	Title	#WAS A STREET OF THE PROPERTY				
	Telephone number	Ottomara, market in market and an analysis analysis and an analysis and an analysis and an analysis and an ana			TO THE TOTAL TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	
		owner or ope	erator (or both) of the treat	ment works?		
	owner		operator			
	indicate whether con facility	esponaence r	egarding this permit should l applicant	be directed to the facility	or the applicant.	
.3.	STEAKANION (AMERICAN CONTRACTOR OF THE STEAK	ntal Permits.	Provide the permit number	of any existing environn	nental permits tha	at have been issued to the treatment
		•		PSD		
						System - PWSID# 6137003
	DOD 4			Other		
	Collection System In each entity and, if kno etc.).	n <b>formation.</b> i own, provide ii	Provide information on munic offormation on the type of col	cipalities and areas serv lection system (combine	ed by the facility. ed vs. separate) a	Provide the name and population of and its ownership (municipal, private,
	Name		Population Served	Type of Collecti	on System	Ownership
	Locust Grove Tow	Ctr.	400	Separate	dia mendentana dia mandri dia mendentana mengana mendentana dia mendelah sebagai sebag	Private

FAC	LT	Y NAME AND PERMIT NUN	IBER:		s. p. daniel de la constantina della constantina			Form Approved	
Locu	st G	Frove Town Center STP -	VA0091961		and the second s			OMB Number 20	040-0086
A.5.	In	dian Country.	<del>arian (Arrako (Arrako</del>	ат на это на при	maka ang Engang mga aga maga kang mga aga kan	ПРИИ НЕН НИКОВИТЕЛЬНИКИ В ВЕЗОПИЛЬНИКИ В ВЕЗОПИЛЬНИТИ В ВЕЗОПИЛЬНИКИ В ВЕЗОПИЛЬНИТИ В ВЕЗОПИ		PRESIDENTES SEUTO ESTABLISMO (1900 de 1920 de 1	OPPORTOR WALLANDS AND
	a.	is the treatment works local	ted in Indian Co	ountry?					
		Yes	No						
	b.	Does the treatment works of through) Indian Country?	discharge to a re	eceiving water that is either i	Indian Country	or that is up	stream fro	m (and eventually	/ flows
		Yes	✓ No						
A.6.	av	ow. Indicate the design flow erage daily flow rate and man riod with the 12th month of "t	kimum daily flow	v rate for each of the last thre	e vears. Each v	ear's data n	nust be bas	nandle). Also pro sed on a 12-mont	vide the h time
	a.	Design flow rate	0.0045 mgd						
				Two Years Ago	Last Year		This Ye	<u>ear</u>	
	b.	Annual average daily flow re	ate	0.0019		0.0019	*************************	0.0020	mgd
	C.	Maximum daily flow rate		0.0030	MENNEY TO BE SELECTED AND SELEC	0.0057	est Sancielos reputer por establistica estab	0.0050	mgd
A.7.	Co	lection System. Indicate the other intribution (by miles) of each.	ne type(s) of col	lection system(s) used by the	e treatment plant	. Check all	that apply.	Also estimate th	e percent
	,	Separate sanitary sew	ver					100	0/
	Persona	Combined storm and					MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND	IOU	• •
	-	COSTEMINATE DECISION CHEEK	ountary some					et et russianiste alpoptorono esta en esta en esta esta esta esta esta esta esta esta	%
A.8.	Dis	scharges and Other Dispos	al Methods.						
	a.	Does the treatment works d	lischarge effluer	nt to waters of the U.S.?			Yes	***************************************	No
		If yes, list how many of each	h of the followin	g types of discharge points t	ne treatment wor	ks uses:			
		i. Discharges of treated e	ffluent					1	******************************
		ii. Discharges of untreated	d or partially trea	ated effluent				0	
		iii. Combined sewer overflo	ow points					0	
		iv. Constructed emergency	overflows (pric	or to the headworks)				0	
		v. Other	nacy and core of the European and Core of the Section States and American States and A	ZB-400PMRSh-NOSSNowwitherspringsbeday zonakenskeduser				0	Novetet 40 millionness purch
	b.	Does the treatment works d impoundments that do not h					Yes	ſ	No
		If yes, provide the following		· ·	<b>.</b>	sAltonintusineen	163	strope-equentine-culticovices	140
		Annual average daily volum			anticologie met rekutske som tokkomet til til som og a men e ande e ande e andere e andere e andere e andere e	<del>n Tally davint K</del> ohlen maay represents y gesse	ANCHAR MARKAMAN MARKAM	mgd	The state of the s
			continuous or	, , , , ,	MRML-ERMAN (unchalang makes	accidentes escription de la company de la co	mana and the control of private and a		
	C.	Does the treatment works la	and-apply treate	d wastewater?		48040143944sision	Yes		No
		If yes, provide the following	for each land a	oplication site:					
		Location:	COLONIA COLONI	DOT DOT MINE AND	nisytomatakin mily minyyyyymmäääämäääääääääääääääääääääääää	TOTAL SANSON AND AND AND AND AND AND AND AND AND AN		NATAOOMAADOMAADOMAADOMAADOMAADOMAADOMAADO	
		Number of acres:	Managaran (Managaran Kanagaran Kanagaran Kanagaran Kanagaran Kanagaran Kanagaran Kanagaran Kanagaran Kanagaran	IND STATES ACCOUNTED AN APPROPRIEST AND AN APPROPRIEST AND APP	inforfinistration (seminores construer				
		Annual average daily volume	e applied to site		M	gd			
		Is land application	continuo	us or intermitt	ent?				
	d.	Does the treatment works di treatment works?	ischarge or tran	sport treated or untreated wa	stewater to anot	her	Yes	1	No

### Form Approved 1/14/99 OMB Number 2040-0086

# FACILITY NAME AND PERMIT NUMBER:

Locust Grove Town Center STP - VA0091961

If transport is hy a na	ty other than the applicant, provide:		
Transporter name:			
Mailing Address:			ng may menghari kempang bang disalah pendalah pada pada pada pada pada On ang pada pada pada pada pada pada pada pad
Contact person:			
Title:			
Telephone number:			
Name: Mailing Address:			<del>nory a constant and a supplication of the sup</del>
		-	
Contact person:			and make a milerary company to Adulta Subsequence of the second of the s
Contact person: Title:			
Contact person: Title: Telephone number:	NRDES normit number of the treatment under their against this discharge		
Contact person: Title: Telephone number: If known, provide the	NPDES permit number of the treatment works that receives this discharge.		
Contact person: Title: Telephone number: If known, provide the			mgc
Contact person: Title: Telephone number: If known, provide the Provide the average of	NPDES permit number of the treatment works that receives this discharge.	Yes	mgc
Contact person: Title: Telephone number: If known, provide the Provide the average of Does the treatment w A.8.a through A.8.d a	NPDES permit number of the treatment works that receives this discharge.  aily flow rate from the treatment works into the receiving facility.  orks discharge or dispose of its wastewater in a manner not included in	Yes	mgc
Contact person: Title: Telephone number: If known, provide the Provide the average of Does the treatment w A.8.a through A.8.d a If yes, provide the following	NPDES permit number of the treatment works that receives this discharge.  aily flow rate from the treatment works into the receiving facility.  orks discharge or dispose of its wastewater in a manner not included in pove (e.g., underground percolation, well injection)?	Yes	
Contact person: Title: Telephone number: If known, provide the Provide the average of Does the treatment w A.8.a through A.8.d a If yes, provide the followscription of method	NPDES permit number of the treatment works that receives this discharge.  aily flow rate from the treatment works into the receiving facility.  orks discharge or dispose of its wastewater in a manner not included in pove (e.g., underground percolation, well injection)?	Yes	and the second second

Locust Grove Town Center STP - VA0091961

### **WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

.9.	Des	scription of Outfall.		
i	<b>a</b> .	Outfall number	001	· · · · · · · · · · · · · · · · · · ·
-	ο.	Location	Locust Grove, VA (City or town, if applicable) Orange	22508 (Zip Code) VA
			(County) 38N 18 36 (Latitude)	77W 48 30 (State) (Longitude)
	C.	Distance from shore	(if applicable)	O ft.
	d.	Depth below surface	e (if applicable)	O ft.
:	€.	Average daily flow r		0.002 mgd
	f.	Does this outfall have periodic discharge?	e either an intermittent or a	Yes No (go to A.9.g.)
		If yes, provide the fo	ollowing information:	
		Number of times pe	r year discharge occurs:	
		Average duration of	each discharge:	
		Average flow per dis	scharge:	mgd
		Months in which dis	charge occurs:	
	g.	Is outfall equipped v	with a diffuser?	Yes No
.10.	De	scription of Receivi	ng Waters.	
	a.	Name of receiving v	vater UT Flat Run	
	b.	Name of watershed	(if known)	Rappahannock
		United States Soil C	Conservation Service 14-digit wa	tershed code (if known): Unknown
	c.	Name of State Man	agement/River Basin (if known):	Upper Rappahannock
		United States Geok	ogical Survey 8-digit hydrologic o	cataloging unit code (if known): 02080103
	d.	Critical low flow of r	eceiving stream (if applicable):	chronic cfs
				w (if applicable): Unknown mg/l of CaCO <sub>3</sub>

Form Approved 1/14/99 OMB Number 2040-0086

# OMB Number 2040-0086 Locust Grove Town Center STP - VA0091961 A.11. Description of Treatment. OCT 13 201 a. What levels of treatment are provided? Check all that apply. ✓ \_ Secondary Primary Other. Describe: Wetland Polishing Advanced b. Indicate the following removal rates (as applicable): Design BOD, removal or Design CBOD, removal Design SS removal Design P removal 90 Design N removal NA TKN Reduction 90 c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe. Chlorination If disinfection is by chlorination, is dechlorination used for this outfall? Yes No d. Does the treatment plant have post aeration? No A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. Outfall number: 001

PARAMETER	MAXIMUN	M DAILY VALUE	10	AVERAGE DAILY	VALUE
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	6.1	s.u.			
pH (Maximum)	8.3	s.u.		10 12 17 17 17 17 17 17 17 17 17 17 17 17 17	
Flow Rate	0.005	mgd	0.002	mgd	365
Temperature (Winter)	22	Degrees C	10	Degrees C	181
Temperature (Summer)	27	Degrees C	22	Degrees C	152

\* For pH please report a minimum and a maximum daily value

POLLUTANT		MAXIMU DISCH		AVERAG	E DAILY DISC	HARGE	ANALYTICAL METHOD	ML/MDL
		Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND N	ONCONVE	NTIONAL COM	/POUNDS.					
BIOCHEMICAL OXYGEN	BOD-5							
DEMAND (Report one)	CBOD-5	10	mg/	3.0	mg/l	12	5210 B	2
FECAL COLIFORM		23.5	n/100 ml	6.89	n/100 ml	25	IDEXX-Colilert	1
TOTAL SUSPENDED SOL	IDS (TSS)	25.0	mg/l	6.0	mg/l	13	2540 D	1

### END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER: Locust Grove Town Center STP - VA0091961

NA - Part B < 0.1 mgd

Form Approved 1/14/99 OMB Number 2040-0086

BA	SIC APPLICATION INFORMATION
PAR	T B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day). NA
All a	pplicants with a design flow rate $\geq$ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.
	Briefly explain any steps underway or planned to minimize inflow and infiltration.
8.2.	Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)
	a. The area surrounding the treatment plant, including all unit processes.
	b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c. Each well where wastewater from the treatment plant is injected underground.
	d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
	<b>Process Flow Diagram or Schematic.</b> Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.
B.4.	Operation/Maintenance Performed by Contractor(s).
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?YesNo
	If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).
	Name:
	Mailing Address:
	Telephone Number:
	Responsibilities of Contractor:
	Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)
	a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
	YesNo

# FACILITY NAME AND PERMIT NUMBER: Locust Grove Town Center STP - VA0091961 c If the answer to B.5.b is "Yes," briefly desc

	If the answer to B.5	i di uumusuunga maanis na basada na haanis na arabah na haanis na arabah na arabah na arabah na arabah na arab	Marchine and the market of the state of the	nu provincia de la companio de la c	ezzezej escezezeken menere meneken ed	hada salamanna manansaliinida samikida marakida hada dhada salada salada dhada salada salada salada salada sal		
d.	Provide dates impo- applicable. For imp applicable. Indicate	provements plai	nned independent	ly of local, State,	es of complet or Federal ag	tion for the implen encies, indicate p	nentation steps listed planned or actual con	below, as npletion dates, as
			Schedule	Aci	tual Completio	on		
	Implementation Sta	ige	MM / DD / `	YYYY MN	I / DD / YYYY	,		
	- Begin constructio	n	//_					
	- End construction			politica de la companya del la companya de la compa				
	- Begin discharge			ringigi nggalajahan				
	- Attain operational	l level	//_					
е.	Have appropriate p	ermits/clearand	es concerning oth	ner Federal/State	requirements	been obtained?	Yes	_No
	Describe briefly:							
	-				CONTRACTOR OF THE STATE OF THE			
De EFI	-LUENT TESTING D	ATA/CDEATE	DTUANOING	D ONL VI		10 g g g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g 1 d g		
OV	erflows in this section	permitting authors. All information	on reported must i	oe based on data	collected thro	ough analysis con	ducted using 40 CFF	R Part 136
ov me ste po	rerflows in this section ethods. In addition, to andard methods for a collutant scans and muutfall Number:	n. All information his data must on nalytes not add st be no more t	on reported must to omply with QA/QC tressed by 40 CFF than four and one-	oe based on data Crequirements of R Part 136. At a i half years old.	collected thro 40 CFR Part minimum, effl	136 and other ap uent testing data i	propriate QA/QC red	uirements for
ov me ste po	rerflows in this section ethods. In addition, to andard methods for a ollutant scans and mu	n. All information his data must conalytes not add st be no more to MAXIMIDISC	on reported must to comply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE	pe based on data C requirements of R Part 136. At a in half years old.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data i	propriate QA/QC req must be based on at	uirements for least three
ov me ste po	rerflows in this section ethods. In addition, to andard methods for a collutant scans and muutfall Number:	n. All information his data must conalytes not add st be no more to make the make th	on reported must to omply with QA/QC tressed by 40 CFF than four and one- UM DAILY	oe based on data Crequirements of R Part 136. At a i half years old.	collected thro 40 CFR Part minimum, effl	136 and other ap uent testing data i	propriate QA/QC red	uirements for
ov m sta po O	rerflows in this section ethods. In addition, to andard methods for a collutant scans and muutfall Number:	n. All information his data must conalytes not add st be no more to MAXIM DISC Conc.	on reported must it omply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE Units	pe based on data C requirements of R Part 136. At a in- chalf years old.  AVERAG  Conc.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data in CHARGE	propriate QA/QC req must be based on at ANALYTICAL	uirements for least three
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OVEN CONVEN	rerflows in this section ethods. In addition, to andard methods for a collutant scans and muutfall Number:	n. All information his data must conalytes not add st be no more to MAXIM DISC Conc.	on reported must it omply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE Units	pe based on data C requirements of R Part 136. At a in- chalf years old.  AVERAG  Conc.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data in CHARGE	propriate QA/QC req must be based on at ANALYTICAL	uirements for least three
OV M St. PC OI F CONVEN AMMON CHLORII RESIDU.	rerflows in this section ethods. In addition, to andard methods for a collutant scans and mutifall Number:  POLLUTANT  ATIONAL AND NONG  IA (as N)  NE (TOTAL	n. All information his data must conalytes not add st be no more to MAXIM DISC Conc.	on reported must it omply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE Units	pe based on data C requirements of R Part 136. At a in- chalf years old.  AVERAG  Conc.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data in CHARGE	propriate QA/QC req must be based on at ANALYTICAL	uirements for least three
ONVEN AMMON CHLORII RESIDUA TOTAL K NITROG	rerflows in this section ethods. In addition, to andard methods for a continuous and mutual Number:  POLLUTANT  ITIONAL AND NONCO IA (as N)  NE (TOTAL AL, TRC)  VED OXYGEN  CJELDAHL EN (TKN) E PLUS NITRITE EN	n. All information his data must conalytes not add st be no more to MAXIM DISC Conc.	on reported must it omply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE Units	pe based on data C requirements of R Part 136. At a in- chalf years old.  AVERAG  Conc.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data in CHARGE	propriate QA/QC req must be based on at ANALYTICAL	uirements for least three
CONVENTATE OF THE PROPERTY OF	rerflows in this section ethods. In addition, to andard methods for a collutant scans and musuffall Number:  POLLUTANT  ATIONAL AND NONG  IA (as N)  NE (TOTAL AL, TRC)  VED OXYGEN  CJELDAHL EN (TKN) E PLUS NITRITE EN GREASE	n. All information his data must conalytes not add st be no more to MAXIM DISC Conc.	on reported must it omply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE Units	pe based on data C requirements of R Part 136. At a in- chalf years old.  AVERAG  Conc.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data in CHARGE	propriate QA/QC req must be based on at ANALYTICAL	uirements for least three
CONVENTATE OF THE STREET OF TH	rerflows in this section ethods. In addition, to andard methods for a collutant scans and musuffall Number:  POLLUTANT  ITIONAL AND NONG IA (as N)  NE (TOTAL AL, TRC)  VED OXYGEN  CJELDAHL EN (TKN) E PLUS NITRITE EN GREASE HORUS (Total)	n. All information his data must conalytes not add st be no more to MAXIM DISC Conc.	on reported must it omply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE Units	pe based on data C requirements of R Part 136. At a in- chalf years old.  AVERAG  Conc.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data in CHARGE	propriate QA/QC req must be based on at ANALYTICAL	uirements for least three
CONVENTATE OF THE STREET OF TH	rerflows in this section ethods. In addition, to andard methods for a collutant scans and musuffall Number:  POLLUTANT  ITIONAL AND NONG IA (as N)  NE (TOTAL AL, TRC)  VED OXYGEN  (JELDAHL EN (TKN)  E PLUS NITRITE EN GREASE  HORUS (Total)	n. All information his data must conalytes not add st be no more to MAXIM DISC Conc.	on reported must it omply with QA/QC tressed by 40 CFF than four and one- UM DAILY HARGE Units	pe based on data C requirements of R Part 136. At a in- chalf years old.  AVERAG  Conc.	collected thro 40 CFR Part minimum, effli E DAILY DIS	136 and other ap uent testing data in CHARGE	propriate QA/QC req must be based on at ANALYTICAL	uirements for least three

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086				
Locust Grove Town Center STP - VA009196	·				
<b>BASIC APPLICATION INFORMA</b>	TION				
PART C. CERTIFICATION					
applicants must complete all applicable sections of	Form 2A, as explained in the Ap s certification statement, applicar	mine who is an officer for the purposes of this certification. All olication Overview. Indicate below which parts of Form 2A you ts confirm that they have reviewed Form 2A and have completed			
Indicate which parts of Form 2A you have comp	oleted and are submitting:				
Basic Application Information packet	Supplemental Application In	formation packet:			
	Part D (Expanded	Effluent Testing Data)			
	Part E (Toxicity Te	sting: Biomonitoring Data)			
	Part F (Industrial U	ser Discharges and RCRA/CERCLA Wastes)			
	Part G (Combined	Sewer Systems)			
ALL APPLICANTS MUST COMPLETE THE FOLI	OWING CERTIFICATION.				
designed to assure that qualified personnel properly who manage the system or those persons directly	y gather and evaluate the inform responsible for gathering the info	under my direction or supervision in accordance with a system ation submitted. Based on my inquiry of the person or persons mation, the information is, to the best of my knowledge and for submitting false information, including the possibility of fine			
Name and official title  Signature  Kenneth Dotson, Own	er Lora Do	Jac H Otan			
Telephone number (540) 840-5335					
Date signed 9/12/1	/				
Upon request of the permitting authority, you must works or identify appropriate permitting requirement	submit any other information neo	essary to assess wastewater treatment practices at the treatment			

SEND COMPLETED FORMS TO:

Form	Approve	d 1/14/99
OMB	Number	2040-0086

Locust Grove Town Center STP - VA0091961

# SUPPLEMENTAL APPLICATION INFORMATION

# PART D. EXPANDED EFFLUENT TESTING DATA NA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: POLLUTANT			IM DAIL		fall discharging effluent to waters of the Unite  AVERAGE DAILY DISCHARGE				a States.)		
	Conc.	DISCH	HARGE	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
METALS (TOTAL RECOVERABLE), C	YANIDE,	PHENO	LS, AND	HARDNE	SS.	1	1	1	Camples		
ANTIMONY											
ARSENIC										ender de la maria seguina di indicata de la maria de la Maria de Maria de Maria de Maria de Maria de Maria de M	
BERYLLIUM											
CADMIUM		Ì									
CHROMIUM										Andrewski and an annual consequence of the A	
COPPER											
LEAD										and the companion and the contract cont	
MERCURY											
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS										Marie 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
HARDNESS (AS CaCO <sub>3</sub> )										Sandard in Proceedings of the support of the Sandard Sandard Sandard Sandard Sandard Sandard Sandard Sandard S	A PARTIE DE L'AUTORITATION NUMERICAL QUARTE DE LA COMPANION DE L'AUTORITATION DE L'A
Use this space (or a separate sheet) to	provide in	formatio	n on othe	r metals r	equested	by the pe	rmit write	<u>r.</u>			
											-
			T T		T	T					

Locust Grove Town Center STP - VA0091961

Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT **MAXIMUM DAILY** AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Mass Conc. Units Units Number **ANALYTICAL** Units Mass ML/ MDL of **METHOD** Samples **VOLATILE ORGANIC COMPOUNDS. ACROLEIN** ACRYLONITRILE BENZENE **BROMOFORM** CARBON TETRACHLORIDE CLOROBENZENE CHLORODIBROMO-METHANE CHLOROETHANE 2-CHLORO-ETHYLVINYL **ETHER** CHLOROFORM DICHLOROBROMO-METHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE TRANS-1,2-DICHLORO-ETHYLENE 1,1-DICHLOROETHYLENE 1,2-DICHLOROPROPANE 1,3-DICHLORO-PROPYLENE **ETHYLBENZENE** METHYL BROMIDE METHYL CHLORIDE METHYLENE CHLORIDE 1,1,2,2-TETRACHLORO-ETHANE TETRACHLORO-ETHYLENE **TOLUENE** 

Locust Grove Town Center STP - VA0091961

Outfall number:					discharging effluent to waters of the United					States.)		
POLLUTANT	MAXIMUM DAILY DISCHARGE				A۱	/ERAGE	EDAILY	DISCH	ARGE			
	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL	
1,1,1-TRICHLOROETHANE												
1,1,2-TRICHLOROETHANE		***************************************										
TRICHLORETHYLENE												
VINYL CHLORIDE									a a a a a a a a a a a a a a a a a a a			
Use this space (or a separate sheet) to	provide in	formatio	n on other	volatile o	organic cor	mpounds	requeste	d by the p	permit writer.			
ACID-EXTRACTABLE COMPOUNDS												
P-CHLORO-M-CRESOL								Charles and Charle				
2-CHLOROPHENOL												
2,4-DICHLOROPHENOL								- Contraction of the Contraction				
2,4-DIMETHYLPHENOL												
4,6-DINITRO-O-CRESOL					Land and the second						The second secon	
2,4-DINITROPHENOL												
2-NITROPHENOL												
4-NITROPHENOL												
PENTACHLOROPHENOL												
PHENOL												
2,4,6-TRICHLOROPHENOL							A CONTRACTOR OF THE CONTRACTOR					
Use this space (or a separate sheet) to	provide in	formatio	n on other	acid-extr	actable co	ompound	s requeste	ed by the	permit writer.		L	
BASE-NEUTRAL COMPOUNDS.	<u> </u>	L	<b>!</b>	L	<b>1</b>	<u> </u>	L	1			<u> </u>	
ACENAPHTHENE							The state of the s					
ACENAPHTHYLENE				-								
ANTHRACENE											and the production of the contract of the cont	
BENZIDINE				The state of the s								
BENZO(A)ANTHRACENE												
BENZO(A)PYRENE											and the second s	

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Outfall number:									States.)		
POLLUTANT	Ŋ	DISCH	IM DAIL` IARGE		A۱		EDAILY		ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL) ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE											
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE											
DIBENZO(A,H) ANTHRACENE							And the second s				
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE				RANGO COLORA RANGO			New York Company of the Company of t				
3,3-DICHLOROBENZIDINE							-				
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE											
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											
1,2-DIPHENYLHYDRAZINE											

Locust Grove Town Center STP - VA0091961

Outfall number:	(Complete once for each outfall discharging effluent to waters of the United States.)										
POLLUTANT	1		IM DAIL'	Ý	A۱	/ERAGI	DAILY	DISCH	ARGE		
	Conc.	Units		Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE		CV2000000000000000000000000000000000000									
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE								en commonweal			
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE				-		A de la constante de la consta					
INDENO(1,2,3-CD)PYRENE											
ISOPHORONE											
NAPHTHALENE	and the state of t			99.000							
NITROBENZENE				Parameter Control of the Control of							
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE										Control of the contro	
PYRENE											
1,2,4-TRICHLOROBENZENE			The state of the s								
Use this space (or a separate sheet) to	provide in	nformatio	n on othe	r base-ne	utral comp	ounds re	quested I	by the pe	rmit writer.		
	T			T							
Use this space (or a separate sheet) to	provide in	formatio	n on othe	r pollutani	ts (e.g., pe	sticides)	requeste	d by the p	ermit writer.		

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Locust Grove Town Center STP - VA0091961

Form Approved 1/14/99 OMB Number 2040-0086

### SUPPLEMENTAL APPLICATION INFORMATION

# PART E. TOXICITY TESTING DATA NA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity
  test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results
  of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

complete.									
E.1. Required Tests.									
Indicate the number of whole effluen	t toxicity tests conducted in the past	four and one-half years.							
chronicacute	chronicacute								
E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.									
Containing per look (Whole Caon Species	Test number:	Test number:	Test number:						
a. Test information.									
Test species & test method number									
Age at initiation of test									
Outfall number									
Dates sample collected									
Date test started									
Duration		·							
b. Give toxicity test methods followed	ed.								
Manual title			·						
Edition number and year of publication									
Page number(s)									
c. Give the sample collection metho	d(s) used. For multiple grab sample	s, indicate the number of grab sample	s used.						
24-Hour composite									
Grab									
d. Indicate where the sample was to	aken in relation to disinfection. (Chec	k all that apply for each)							
Before disinfection									
After disinfection									
After dechlorination									

Locust Grove Town Center STP - VA0091961

		<b>1</b>	
	Test number:	Test number:	Test number:
e. Describe the point in the treatmer	nt process at which the sample was	collected.	
Sample was collected:			
f. For each test, include whether the	test was intended to assess chronic	toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performed	d.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	er, specify "natural" or type of artificia	I sea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used	for all concentrations in the test seri	es.	
k. Parameters measured during the	test. (State whether parameter mee	ts test method specifications)	
pH			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.		American and a second company of the	\$0
Acute:			
Percent survival in 100% effluent	%	%	%
LC <sub>50</sub>			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBER Locust Grove Town Center STP - VA			Form Approved 1/14/99 OMB Number 2040-0086				
Chronic:	8 (F) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A						
NOEC	%	%	%				
IC <sub>25</sub>	%	%	%				
Control percent survival	%	%	.%				
Other (describe)							
m. Quality Control/Quality Assuran	ice.						
Is reference toxicant data available?							
Was reference toxicant test within acceptable bounds?							
What date was reference toxicant test run (MM/DD/YYYY)?							
Other (describe)							
E.4. Summary of Submitted Biomonito cause of toxicity, within the past fou summary of the results.	describe:  pring Test Information. If you have and one-half years, provide the dat  (MM/DD/YYYY)		on, or information regarding the e permitting authority and a				
	END OF P	ADT E					

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

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# FACILITY NAME AND PERMIT NUMBER:

Locust Grove Town Center STP - VA0091961

# SUPPLEMENTAL APPLICATION INFORMATION

<i>U</i>	OFF LEMENTAL AFF LIGATION IN CRIMATION	
PAR	ART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES NA	
	Il treatment works receiving discharges from significant industrial users or which receive RCRA, Complete Part F.	ERCLA, or other remedial wastes must
GEN	ENERAL INFORMATION:	
F.1.	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment YesNo	program?
F.2.	<ol> <li>Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide to findustrial users that discharge to the treatment works.</li> </ol>	the number of each of the following types
	a. Number of non-categorical SIUs.	
	b. Number of CIUs.	
SIG	IGNIFICANT INDUSTRIAL USER INFORMATION:	
Supp	upply the following information for each SIU. If more than one SIU discharges to the treatment wor	ks, copy questions F.3 through F.8
	<ol> <li>Significant Industrial User Information. Provide the name and address of each SIU discharging to t pages as necessary.</li> </ol>	the treatment works. Submit additional
	Name:	
	Mailing Address:	
F.4.	4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's di	scharge.
F.5.	<ol> <li>Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials discharge.</li> </ol>	s that affect or contribute to the SIU's
	Principal product(s):	
	Raw material(s):	
F.6.	.6. Flow Rate.	
	<ul> <li>Process wastewater flow rate. Indicate the average daily volume of process wastewater discharge per day (gpd) and whether the discharge is continuous or intermittent.</li> </ul>	ed into the collection system in gallons
	gpd (continuous orintermittent)	
	<ul> <li>Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater system in gallons per day (gpd) and whether the discharge is continuous or intermittent.</li> </ul>	flow discharged into the collection
	gpd (continuous orintermittent)	
F.7.	.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:	
	a. Local limitsYesNo	
	b. Categorical pretreatment standardsYesNo	
	If subject to categorical pretreatment standards, which category and subcategory?	
F.7.	a. Local limitsYesNo b. Categorical pretreatment standardsYesNo	

FACI	LITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
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F.8.	Problems at the Treatment Works Attributed to Waste Discharged by th upsets, interference) at the treatment works in the past three years?	e SIU. Has the SIU caused or contributed to any problems (e.g.,
	YesNo If yes, describe each episode.	
RCR	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDIC	CATED PIPELINE:
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three y pipe?YesNo (go to F.12.)	ears received RCRA hazardous waste by truck, rail, or dedicated
F.10.	Waste Transport. Method by which RCRA waste is received (check all tha	t apply):
	TruckRailDedicated Pipe	
E 44	Waste Description. Give EPA hazardous waste number and amount (volu	me or mass, specify units).
1 - 2 - 2 - 2	EPA Hazardous Waste Number Amount	Units
CER ACT	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/COR ION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTE	RECTIVE WATER:
F.12.	Remediation Waste. Does the treatment works currently (or has it been no	tified that it will) receive waste from remedial activities?
	Yes (complete F.13 through F.15.)No	
	Provide a list of sites and the requested information (F.13 - F.15.) for each	current and future site.
F.13.	. <b>Waste Origin.</b> Describe the site and type of facility at which the CERCLA/F in the next five years).	RCRA/or other remedial waste originates (or is expected to originate
F.14.	. Pollutants. List the hazardous constituents that are received (or are expect known. (Attach additional sheets if necessary).	ted to be received). Include data on volume and concentration, if
F.15	. Waste Treatment.	
	a. Is this waste treated (or will it be treated) prior to entering the treatment	works?
	YesNo	iciana/):
	If yes, describe the treatment (provide information about the removal eff	iciency).

END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
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If intermittent, describe discharge schedule.

b. Is the discharge (or will the discharge be) continuous or intermittent?

\_\_Continuous

\_Intermittent

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### **FACILITY NAME AND PERMIT NUMBER:**

Locust Grove Town Center STP - VA0091961

# SUPPLEMENTAL APPLICATION INFORMATION

# PART G. COMBINED SEWER SYSTEMS NA

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
  - a. All CSO discharge points.
  - b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
  - c. Waters that support threatened and endangered species potentially affected by CSOs.
- **G.2.** System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
  - a. Locations of major sewer trunk lines, both combined and separate sanitary.
  - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
  - c. Locations of in-line and off-line storage structures.
  - d. Locations of flow-regulating devices.
  - e. Locations of pump stations.

CSO	PO 8	872	At		۰.	
	4. 34	2 2 S-	68 S.	. B	· .	

COUL	OIFALLS.			
Compl	ete questions G.3 thro	ugh G.6 once <u>for each CSO discharge point</u>		
G.3. De	escription of Outfall.			
а	. Outfall number			
b	. Location	(City or town, if applicable)	(Zip Code)	
		(0.5) 0. 10, 1. 2,5,1	(=,, + ,	
		(County)	(State)	
		(Latitude)	(Longitude)	
С	. Distance from shore	(if applicable)	ft.	
d	. Depth below surface	(if applicable)	ft.	
е	. Which of the following	g were monitored during the last year for this C	SO?	
	Rainfall	CSO pollutant concentrations	CSO frequency	
	CSO flow volum	eReceiving water quality		
f.	How many storm eve	ents were monitored during the last year?	****	
G.4. C	SO Events.			
а	. Give the number of C	CSO events in the last year.		
	events (	( actual or approx.)		
b	. Give the average dur	ration per CSO event.		
	hours (	actual or approx.)		

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	C.	Give the average volume per CSO event million gallons ( actual or approx.)	
	d.	Give the minimum rainfall that caused a CSO event in the last year.  inches of rainfall	
G.5.	Des	scription of Receiving Waters.	
	a.	Name of receiving water:	
	b.	Name of watershed/river/stream system:	
		United States Soil Conservation Service 14-digit watershed code (if known):	
	C.	Name of State Management/River Basin:	
		United States Geological Survey 8-digit hydrologic cataloging unit code (if known):	
G.6.	CS	O Operations.	
	pe	escribe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, rmanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water ality standard).	

END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
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# LGTC INFLUENT RESULTS

# LGTC EFFLUENT RESULTS

MONTH	Year	BOD	TP	TKN
May	2010	380	9.92	73.5
June	2010	590	12.2	96
July	2010	>550	12	90

MONTH	Year	BOD	TP	TKN
May	2010	<2	0.27	1.8
June	2010	<2	0.8	2.1
July	2010	<ql*< td=""><td>1.7</td><td>1.1</td></ql*<>	1.7	1.1
		QL=2.0		

Available influent data - 3 Months Removal efficiency computed (assume Eff BOD = 2 due to < results July BOD assumed to be 550 ppm.

# OBSERVED REMOVAL

2010	May	June	July
BOD	99.47%	99.66%	99.64%
TP	97.28%	93.44%	85.83%
TKN	97.55%	97.81%	98.78%

OHN-OAQ PEOENED

### VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

### SCREENING INFORMATION

This application is divided into four sections. Section A pertains to all applicants. The applicability of Sections B, C and D depends on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All applicants must complete Section A (General Information).
2.	Does this facility generate sewage sludge? X Yes No
	Does this facility derive a material from sewage sludge? Yes X No
	If you answered "Yes" to either, complete Section B (Generation Of Sewage Sludge or Preparation Of A Material Derived From Sewage Sludge).
3.	Does this facility apply sewage sludge to the land?Yes XNo
	Is sewage sludge from this facility applied to the land? X Yes No
	If you answer "No" to all above, skip Section C.
	If you answered "Yes" to either, answer the following three questions:
	<ul> <li>Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?</li> <li>Yes X No</li> </ul>
	b. Is sewage sludge from this facility placed in a bag or other container for sale or give-away for application to the land?  Yes X No
	c. Is sewage sludge from this facility sent to another facility for treatment or blending? X YesNo
	If you answered "No" to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you answered "Yes" to a, b or c, skip Section C.
4.	Do you own or operate a surface disposal site?Yes X No
	If "Yes", complete Section D (Surface Disposal).

# SECTION A. GENERAL INFORMATION

All applicants must complete this section.

2.

3.

1.	Fac	cility Information.						
	a.	Facility name: Locust Grove Town Center				17	***********************	
	b.	Contact person: Kenneth & Lora Dotson				.,		
		Title: Owners						
		Phone: ( <u>540</u> ) <u>840-5335</u>	men					
	c.	Mailing address:						
		Street or P.O. Box: 33225 Constitution Highway						
		City or Town: Locust Grove	_ S	tate:	VA	1	Zip:	22508
	d.	Facility location:						
		Street or Route #: 32301 Constitution Highway						
		County: Orange					-	
		City or Town: Locust Grove	_ Si	tate:	VA	\	Zip:	22508
	e.	Is this facility a Class I sludge management facility?	Yes	X	donesativa	No		
	f.	Facility design flow rate: 0.0045		mg	gd			
	g.	Total population served: 400						
	h.	Indicate the type of facility:						
		Publicly owned treatment works (POTW)						
		X Privately owned treatment works						
		Federally owned treatment works						
		Blending or treatment operation						
		Surface disposal site						
		Other (describe):						
2.	Ap	plicant Information. If the applicant is different from the abo	ove,	prov	vide	the follo	wing:	
	a.	Applicant name: Same			*********	***************************************		
	b.	Mailing address:						
		Street or P.O. Box:						
		City or Town:					Zip:	
	c.	Contact person:						
		Title:						
		Phone: ()						
	d.	Is the applicant the owner or operator (or both) of this facility x owner operator	?					
	e.	Should correspondence regarding this permit be directed to the facility X applicant Applicant is Own						er's address
3.	Per	mit Information.						
	a.	Facility's VPDES permit number (if applicable): VA009196	1			-		
	b.	List on this form or an attachment, all other federal, state or lo applied for that regulate this facility's sewage sludge manager					uction	approvals received or
		Permit Number: Type of Permit:  NA		_				

FA	FACILITY NAME: Locust Grove Town Center	VPDES PERMIT NUMBER: VA0091961					
4.	Indian Country. Does any generation, treatment, storage, ap facility occur in Indian Country? Yes _x No _ If		posal of sewage sludge from	this			
5.	<ul> <li>Topographic Map. Provide a topographic map or maps (or of that shows the following information. Maps should include the facility:</li> <li>a. Location of all sewage sludge management facilities, inclure treated, or disposed.</li> <li>b. Location of all wells, springs, and other surface water both applicant within 1/4 mile of the property boundaries.</li> </ul>	e area one mile beyon uding locations where	d all property boundaries of a sewage sludge is generated,	the stored,			
6.	be employed during the term of the permit including all process sewage sludge, the destination(s) of all liquids and solids leave and vector attraction reduction.	sses used for collecting	g, dewatering, storing, or trea	ting			
7.	Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation treatment, use or disposal the responsibility of a contractor? X Yes No						
	If "Yes", provide the following for each contractor (attach add	If "Yes", provide the following for each contractor (attach additional pages if necessary).					
	Name: American Tank						
	Mailing address:						
	Street or P.O. Box: P.O. Box 294						
	City or Town: Stafford	State: VA	Zip: 22555	******			
	Phone: (800 ) 360-1269		T				
	Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:						
	VDH RAHD-15	· · · · · · · · · · · · · · · · · · ·					
	If the contractor is responsible for the use and/or disposal of the provided to the applicant and the respective obligations of the	applicant and the cont	ractor(s). Septage Hauler	ce to be			

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. NA - Material removed is transported to another facility for additional treatment

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium			A CONTRACTOR OF THE PROPERTY O	
Chromium				
Copper		ende state system et prime bottom state versiop en product microse graties appearation et virge en ausse en acus et		
Lead	de cache milità i i i i i i i i i i i i i i i i i i		TO THE THE PARTY OF THE PARTY O	
Mercury			NA TITO OTO TO CONTROLLE CONTROLLE CONTROLLE CONTROLLE CONTROLLE CONTROLLE CONTROLLE CONTROLLE CONTROLLE CONTR	AND THE PERSON OF THE PERSON O
Molybdenum		Albert 2000 - Albert Construction in Management and Security and American		
Nickel				
Selenium				
Zinc				

FA	CILITY NAME: Locust Grove Town Center VPDES PERMIT NUMBER: VA0091961			
9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:			
	X Section A (General Information)			
	X Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)			
Section C (Land Application of Bulk Sewage Sludge)				
Section D (Surface Disposal)				
	"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."			
	Name and official title Kenneth Dotson, Owner Lora Dotson, Owner			
	Signature Kinnett Data Start Date Signed 9-12-11			
	Telephone number ( <u>540</u> ) <u>840-5335</u>			
	Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal			

practices at your facility or identify appropriate permitting requirements.

# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.	An Tot	rount Generated On Site.  Est. Volume removed is all dry metric tons per 365-day period generated at your facility: 0.5 dry metric tons 2000 gal/3 months						
2.	An disp	Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or lisposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage ludge from more than one facility, attach additional pages as necessary. NA						
	a.	Facility name:						
	b.	Contact Person:						
		Title:						
		Phone: ()						
	c.	Mailing address:						
		Street or P.O. Box:						
		City or Town:          State:          Zip:						
	d.	Facility location:						
		(not P.O. Box)						
	e.	Total dry metric tons per 365-day period received from this facility: dry metric tons						
	f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:						
3.	Tro	Which class of pathogen reduction is achieved for the sewage sludge at your facility?  Class A  Class B  X  Neither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce						
	0.	pathogens in sewage sludge: No treatment provided - Septic tanks/ATUs & Contact tank are pumped.						
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility? NA						
		Option 1 (Minimum 38 percent reduction in volatile solids)						
		Option 2 (Anaerobic process, with bench-scale demonstration)						
		Option 3 (Aerobic process, with bench-scale demonstration)						
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)						
		Option 5 (Aerobic processes plus raised temperature)						
		Option 6 (Raise pH to 12 and retain at 11.5)						
		Option 7 (75 percent solids with no unstabilized solids)						
		Option 8 (90 percent solids with unstabilized solids)						
		None or unknown						
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector						
		attraction properties of sewage sludge: No treatment provided - Septic tanks/ATUs & Contact tank are pumped						
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above:  NA						

FA	CIL	ITY NAME: Locust Grove Town Center	VPDES PERMIT	NUMBER: <u>VA0091961</u>					
4.		eparation of Sewage Sludge Meeting Ceiling and Pollutant ne of Vector Attraction Reduction Options 1-8 (EQ Sludge).	•	ass A Pathogen Requirements and					
	(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)								
	a.	Total dry metric tons per 365-day period of sewage sludge su	bject to this section	that is applied to the land:					
		dry metric tons							
	b.	Is sewage sludge subject to this section placed in bags or othe Yes No	er containers for sale	e or give-away?					
5.	Sal	Sale or Give-Away in a Bag or Other Container for Application to the Land. NA							
	(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.)								
	a.	Total dry metric tons per 365-day period of sewage sludge pl	aced in a bag or oth	er container at your facility for					
		sale or give-away for application to the land:	dry metric tons						
	b.	Attach, with this application, a copy of all labels or notices the away in a bag or other container for application to the land.	at accompany the se	ewage sludge being sold or given					
6.	Shi	ipment Off Site for Treatment or Blending.							
	ble Ski	omplete this question if sewage sludge from your facility is se nding. This question does not apply to sewage sludge sent di ip this question if the sewage sludge is covered in Questions 4 iility, attach additional sheets as necessary.)	rectly to a land appl	lication or surface disposal site.					
	a.	Receiving facility name: Little Falls Run WWTF							
	b.	Facility contact: Michael Smith							
		Title: Assistant Director of Facilities/Operation							
		Phone: (540 ) 658-8620	nives.						
	c.	Mailing address:							
		Street or P.O. Box: 20 PGA Drive, Suite 201							
		City or Town: Stafford	_ State: VA	Zip: 22554					
	d.	Total dry metric tons per 365-day period of sewage sludge pr 0.5 dry metric tons ~ 3,000 gallons septage/3 mo		facility:					
	e.	List, on this form or an attachment, the receiving facility's VI	DES permit number						
		federal, state or local permits that regulate the receiving facility	ty's sewage sludge i	ise or disposal practices:					
		Permit Number: Type of Permit:  VA0076392 VPDES							
		VA0076392		Manager and Company of the Company o					
	f.	Does the receiving facility provide additional treatment to rec	luce pathogens in se	wage sludge from your facility?					
		Which class of pathogen reduction is achieved for the sewage Class A Class B Neither or unl		ving facility?					
		Describe, on this form or another sheet of paper, any treatment	nt processes used at	the receiving facility to reduce					
		pathogens in sewage sludge:Aerobic Digestion							
	g.	Does the receiving facility provide additional treatment to recsludge? × Yes No	luce vector attraction	n characteristics of the sewage					
		Which vector attraction reduction option is met for the sewag	e sludge at the recei	ving facility?					
		Option 1 (Minimum 38 percent reduction in volatile so	olids)						

CIL	ITY NAME: Locust Grove Town Center VPDES PERMIT NUMBER: VA0091961				
	Option 2 (Anaerobic process, with bench-scale demonstration)				
	Option 3 (Aerobic process, with bench-scale demonstration)				
	X Option 4 (Specific oxygen uptake rate for aerobically digested sludge)				
	Option 5 (Aerobic processes plus raised temperature)				
	Option 6 (Raise pH to 12 and retain at 11.5)  Option 7 (75 percent solids with no unstabilized solids)  Option 8 (90 percent solids with unstabilized solids)				
	None unknown				
	Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: Aerobic Digestion				
h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above?  Yes X No				
	If "Yes", describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:				
• pood	If you answered "Yes" to f, g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. NA - Septage				
j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? Yes _X No				
	If "Yes", provide a copy of all labels or notices that accompany the product being sold or given away.				
k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? X Yes No. If "No", provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.				
	Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week				
	and the times of the day sewage sludge will be transported.  N on Route 20 to Route 3 - East on Route 3 to Plant  Pumping ~once/3 months- rotate septic tank PO so each is  pumped annually at minimum. Pumping weekdays 8AM - 5 PM				
ĭ.a	nd Application of Bulk Sewage Sludge. LGTC transports material offsite for final treatment & management				
(Ce	omplete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in estions 4, 5 or 6. Complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)				
a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:				
	dry metric tons				
b.	Do you identify all land application sites in Section C of this application? Yes No				
	If "No", submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).				
c.	Are any land application sites located in States other than Virginia? Yes No				
	If "Yes", describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.				

FACILITY NAME: Locust Grove Town Center VPDES PERMIT NUMBER: VA0091961 8. Surface Disposal. NA (Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.) a. Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: dry metric tons b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? Yes No If "No", answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary. c. Site name or number: d. Contact person: Phone: ( \_\_\_\_\_) \_\_\_\_ Contact is: Site Owner Site operator e. Mailing address: Street or P.O. Box: \_\_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ City or Town: f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons g. List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site: Permit Number: Type of Permit: 9. Incineration, NA (Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.) a. Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: dry metric tons b. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? Yes No If "No", answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary. c. Incinerator name or number:

d. Contact person:

Phone: ( \_\_\_\_\_) \_\_\_\_

incinerator: \_\_\_\_\_dry metric tons

Contact is: Incinerator Owner Incinerator Operator

f. Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge

g. List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing

Street or P.O. Box:

Title:

e. Mailing address:

\_\_\_\_\_ State: \_\_\_\_ Zip: \_\_\_\_

'ACII	LITY NAME: Locust	Grove Town Center	VPDES PER	MIT NUMBER: <u>VA0091961</u>
	of sewage sludge at th	nis incinerator:		
	Permit Number:	Type of Permit:		
	•	Solid Waste Landfill. NA		
fo	llowing information for	each municipal solid waste la	ndfill on which sewage	cipal solid waste landfill. Provide the sludge from your facility is placed. If hadditional pages as necessary.)
a.	Landfill name:			
b.				
		andfill Owner Landfill		
c.	Mailing address:			
	Street or P.O. Box:			
d.	Landfill location.			
	Street or Route #:			
				Zip:
e.	Total dry metric tons	per 365-day period of sewage s	ludge placed in this mur	nicipal solid waste landfill:
	dry m	etric tons		
f.	List, on this form or a municipal solid waste		ll federal, state or local p	permits that regulate the operation of this
	Permit Number:	Type of Permit:		
g,	80-10 et seq., concern	neet applicable requirements in ing the quality of materials disp	osed in a municipal sol	te Management Regulation, 9 VAC 20-id waste landfill?
h.		olid waste landfill comply with ion, 9 VAC 20-80-10 et seq.?		t forth in the Virginia Solid Waste
****		or other container used to transp d? Yes No	ort sewage sludge to the	e municipal solid waste landfill be
	Show the haul route(s	) on a location map or briefly d	escribe the route below	and indicate the days of the week

## SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE NA

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

. 0	Ide	ntif	ication of Land App	lication Site.			
	a.	Site name or number:					
	b.	Site	e location (Complete	i and ii)			
		i.	Street or Route#:				
			County:				
			City or Town:		State:	Zip:	
		ii.	Latitude:	Longitude:		AND AND REPORTED AND AND AND AND AND AND AND AND AND AN	
				ongitude determinationFiled survey	Other		
	c.		pographic map. Provows the site location.	ide a topographic map (or other ap	propriate map if a top	pographic map is unavailable) that	
	Ov	ner	Information.				
	a.	Are	e you the owner of th	is land application site?Y	esNo		
	b.			owing information about the owner			
		Na	ıme:				
	Ap		r Information:				
	a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land applicati  Yes No						
	b.	If"	"No", provide the foll	owing information for the person	who applies the sewag	ge sludge:	
		Na	ıme:				
	c.						
		Per	rmit Number:	Type of Permit:			
	~		pe. Identity the type	of land application site from amor	ng the following:		
ļ ra	Site	-					
i Pa	Site	A	Agricultural land Public contact site	Reclamation site Other (describe	Forest		

Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?

FAC	IL	ITY NAME: Locust Gr	ove Town Center	VPDES PERM	IIT NUMBER: <u>VA0091961</u>
_		Yes No If "	Yes", answer a and b.		
8	ì.	Indicate which vector at	traction reduction option is	met:	
		Option 9 (Injection	on below land surface)		
		Option 10 (Incor	poration into soil within 6 l	nours)	
144	Э.		r on another sheet of paper perties of sewage sludge:	, any treatment processes u	sed at the land application site to reduce
	_	3 3	BD A BY a data on the		
(	(Ca	mulative Loadings and omplete Question 6 only i llutant loading rates (CP)	if the sewage sludge applie	d to this site since July 20,	, 1993 is subject to the cumulative
•	901. 3.			ty in the state where the se	wage sludge subject to the CPLRs will
•	a.	be applied to ascertain v	whether bulk sewage sludge	e subject to the CPLRs has	been applied to this site since July 20,
		If "No", sewage sludge	subject to the CPLRs may	not be applied to this site.	
		If "Yes", provide the fo	llowing information:		
		Permitting authority:			
		Contact person:			
		Phone: ()			
1	b.	Based upon this inquiry YesNo	, has bulk sewage sludge so If "No", skip the rest of Q	ubject to the CPLRs been a puestion 6. If "Yes", answ	pplied to this site since July 20, 1993? ver questions c - e.
(	c.	Site size, in hectares: _	(one hectare	= 2.471 acres)	
•	d.	Provide the following in to the CPLRs to this site additional pages as nece	e since July 20, 1993. If me	y other than yours that is so ore than one such facility s	ending or has sent sewage sludge subject ends sewage sludge to this site, attach
		Facility name:			
		Title:			
		Mailing address.			
		Street or P.O. Box:			
		City or Town:		State:	Zip:
	e.	Provide the total loadin	g and allotment remaining,	in kg/hectare, for each of t	he following pollutants:
			Cumulative loading	Allotment remaining	
		Arsenic			
		Cadmium			
		Copper			
		Lead			
		Mercury			
		Nickel			
		Selenium			
		Zinc			

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

FA	CILITY NAM	IE: Locust Grove Town Center	VPDES PERMIT NUMBER: VAUU91901
7.	Sludge Chars	acterization. Use the table below or a separate atta	chment, provide at least one analysis for each parameter
	PCBs (mg	g/kg)	
	pH (S. U.	.)	
	Percent S	Solids (%)	
	Ammoniu	um Nitrogen (mg/kg)	
	Nitrate N	fitrogen (mg/kg)	
	Total Kje	eldahl Nitrogen (mg/kg)	
	Total Pho	osphorus (mg/kg)	
	Total Pota	assium (mg/kg)	
	Alkalinity	y as CaCO <sub>3</sub> * (mg/kg)	•
	* Lime t	treated sludge (10% or more lime by dry weight) sh	ould be analyzed for percent CaCO <sub>3</sub> .
8.	Storage Requ	uirements.	
	incorporating	proposed sludge storage facilities must provide an e such factors as storage capacity, sludge production ustifying storage requirements.	
		lge storage facilities must also provide the following	
			drangle or other appropriate scaled map to show the to a distance of 0.25 mile. Clearly mark the property
	2) Surfa 3) Sprin 4) Publi 5) Sinkl 6) Unde 7) Mine 8) Mini 9) Quar 10) Sand 11) Gas a 12) Divei 13) Agric 14) Occu 15) Land 16) Othe 17) Septi 18) Injec 19) Rock	ic water supply(s) holes erground and/or surface mines e pool (or other) surface water discharge points ing spoil piles and mine dumps rry(s) I and gravel pits and oil wells ersion ditch(s) cultural drainage ditch(s) upied dwellings, including industrial and commercial fills or dumps er unlined impoundments ic tanks and drainfields ction wells k outcrops	
		aphic map of sufficient detail to clearly show the for imum and minimum percent slopes	llowing information:
	<ul><li>2) Depr</li><li>3) Drair</li><li>4) Portic</li></ul>	ressions on the site that may collect water nageways that may attribute to rainfall run-on to or	runoff from this site 00-year floodplain and how the storage facility will be
	c. Data and	specifications for the storage facility lining materia	1.
	d. Plan and	cross-sectional views of the storage facility.	

e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent

9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage

water table.

CACH ITV NAME.	Locust Grove Town Center	VPDES PERMIT NUMBER: VA0091961
E. 1-8 6 ' 5 8 15 8 8 15 15 15 15 15 15 15 15 15 15 15 15 15	TOO COLORO LOUIS GOILOS.	A WASHING TO TAKE WASHING

sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.

10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

#### 11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? \_\_\_\_\_ Yes \_\_\_\_ No

If "Yes", submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

### 12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U.S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U.S. Fish and Wildlife Service Virginia Field Office P.O. Box 480 White Marsh, VA 23183

TEL: (804) 693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

### Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

  Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1) Soil symbol
  - 2) Soil series, textural phase and slope range
  - 3) Depth to seasonal high water table
  - 4) Depth to bedrock
  - 5) Estimated soil productivity group (for the proposed crop rotation)
- f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the

FACILITY NAME: Locust Grove Town Center	VPDES PERMIT NUMBER: VA0091961
following parameters.	
Soil Organic Matter (%)	
Soil pH (std. units)	4
Cation Exchange Capacity (meq/100g)	www.chrossendordon.com/chross-devided backs-file-add-minimated
Total Nitrogen (ppm)	
Organic Nitrogen (ppm)	eemandad ta eemandad valuulukseen kalkan kalkan kalkan kan kan kan kan kan kan kan kan kan
Ammonia Nitrogen (ppm)	
Nitrate Nitrogen (ppm)	
Available Phosphorus (ppm)	
Exchangeable Potassium (mg/100g)	
Exchangeable Sodium (mg/100g)	
Exchangeable Calcium (mg/100g)	
Exchangeable Magnesium (mg/100g)	
Arsenic (ppm)	
Cadmium (ppm)	
Copper (ppm)	
Lead (ppm)	and the second s
Mercury (ppm)	
Molybdenum (ppm)	
Nickel (ppm)	
Selenium (ppm)	- And the state of
Zinc (ppm)	***
Manganese (ppm)	Market and the second s
Particle Size Analysis or USDA Textural Estimate (%)	

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

FA	CILITY NAME: Locust Grove Town Center	VPDES PERMIT NUMBER: VA0091961
	SEWAGE SLUDGE AP	PLICATION AGREEMENT
Thi	s sewage sludge application agreement is made on this dat	ebetween
		landowner", and,
refe	rred to here as the "Permittee".	
Lan	downer is the owner of agricultural land shown on the ma	p attached as Exhibit A and designated there as
cert	ain permit requirements following application of sewage s	. Permittee agrees to apply and landowner agrees to comply with sludge on landowner's land in amounts and in
	anner authorized by VPDES permit number	
Lan con pub	downer acknowledges that the appropriate application of ditioning to the property. Moreover, landowner acknowledges	sewage sludge will be beneficial in providing fertilizer and soil edges having been expressly advised that, in order to protect to when sewage sludge receives Class B treatment for pathogen
1.	Food crops with harvested parts that touch the sewage slibe harvested for 14 months after application of sewage sl	udge/soil mixture and are totally above the land surface shall not ludge;
2.		land shall not be harvested for 20 months after application of and surface for four months or longer prior to incorporation into
3.	Food crops with harvested parts below the surface of the sewage sludge when the sewage sludge remains on the latthe soil;	land shall not be harvested for 38 months after application of and surface for less than four months prior to incorporation into
4.	Food crops, feed crops, and fiber crops shall not be harve	ested for 30 days after application of sewage sludge;
5.	Animals shall not be grazed on the land for 30 days after	application of sewage sludge;
6.	Turf grown on land where sewage sludge is applied shall sludge when the harvested turf is placed on either land w otherwise specified by the State Water Control Board;	not be harvested for one year after application of the sewage ith a high potential for public exposure or a lawn, unless
7.	Public access to land with a high potential for public exp sludge;	osure shall be restricted for one year after application of sewage
8.	Public access to land with a low potential for public exposludge.	osure shall be restricted for 30 days after application of sewage
9.	Tobacco, because it has been shown to accumulate cadming following the application of sewage sludge borne cadmin pounds/acre).	ium, should not be grown on landowner's land for three years arm equal to or exceeding 0.5 kilograms/hectare (0.45
spe	mittee agrees to notify landowner or landowner's designed cifically prior to any particular application to landowner's tten notice to the address specified below.	e of the proposed schedule for sewage sludge application and land. This agreement may be terminated by either party upon
	Landowner:	Permittee:
	Signature	Signature

Mailing Address

Mailing Address

1.

2.

# SECTION D. SURFACE DISPOSAL NA

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

Iní	orm	ation on Active Sewage Sludge Units.				
a.	Un	it name or number:				
b.	Ur	it location				
	i.	Street or Route#:				
		County:				
		City or Town: State: Zip:				
	ii.	Latitude: Longitude:				
		Method of latitude/longitude determination  USGS map Filed survey Other				
c.		pographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that we the site location.				
d.	To	al dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:				
		dry metric tons.				
e.	To	al dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:				
		dry metric tons.				
f.		es the active sewage sludge unit have a liner with a minimum hydraulic conductivity of 1 x 10 <sup>-7</sup> cm/sec?  Yes No If "Yes", describe the liner or attach a description.				
	********					
g.	Do	es the active sewage sludge unit have a leachate collection system? Yes No				
		If "Yes", describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:				
	Lauredo					
h.	Is	rou answered "No" to either f or g, answer the following:  the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal  Yes No If "Yes", provide the actual distance in meters:				
i.	Re	maining capacity of active sewage sludge unit, in dry metric tons: dry metric tons				
	Aı	ticipated closure date for active sewage sludge unit, if known:(MM/DD/YYYY)				
	Provide with this application a copy of any closure plan developed for this active sewage sludge unit.					
Se	wag	Sludge from Other Facilities.				
Is	sewa	ge sludge sent to this active sewage sludge unit from any facilities other than yours? Yes No				
If'	'Yes	, provide the following information for each such facility, attach additional sheets as necessary.				
a.	Fa	cility name:				
b.		cility contact:				
		le:				
		one: ()				
c.	M	iling address:				
	St	eet or P.O. Box:				
		v or Town: State: Zip:				

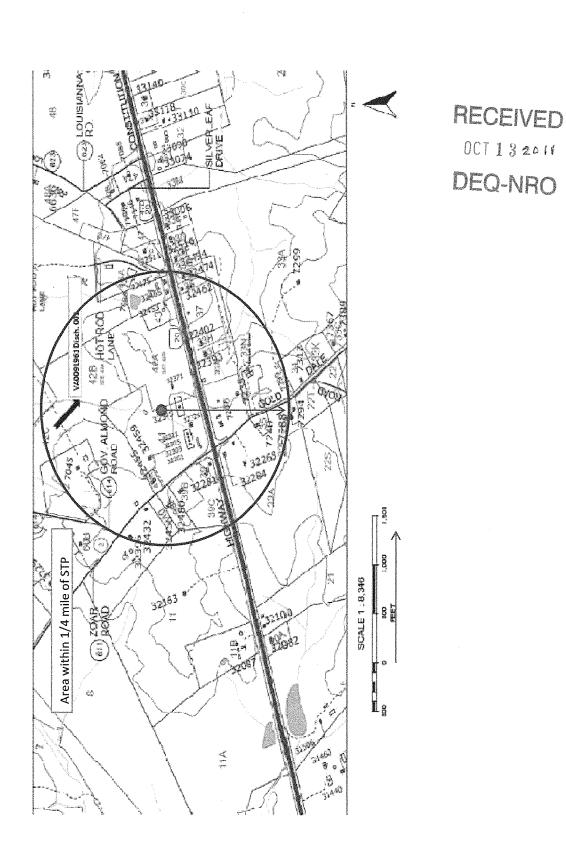
FA	CIL	CILITY NAME: Locust Grove Town Center VPDES PERMIT	NUMBER: <u>VA0091961</u>
	d.	d. List, on this form or an attachment, the facility's VPDES permit number as well a state or local permits that regulate the facility's sewage sludge management pract	
		Permit Number: Type of Permit:	
	e.	Class A Class B Neither or unknown	
	f.	f. Describe, on this form or on another sheet of paper, any treatment processes used pathogens in sewage sludge:	
	g.		s the other facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)	
		Option 2 (Anaerobic process, with bench-scale demonstration)	
		Option 3 (Aerobic process, with bench-scale demonstration)	
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)	
		Option 5 (Aerobic processes plus raised temperature)	
		Option 6 (Raise pH to 12 and retain at 11.5)	
		Option 7 (75 percent solids with no unstabilized solids)	
		Option 8 (90 percent solids with unstabilized solids)	
		None or unknown	
	h.	h. Describe, on this form or another sheet of paper, any treatment processes used at vector attraction properties of sewage sludge:	
			,
	1.	i. Describe, on this form or another sheet of paper, any other sewage sludge treatm other facility that are not identified in e - h above:	
3.	Ve	Vector Attraction Reduction.	
	a.	a. Which vector attraction reduction option, if any, is met when sewage sludge is p unit?	laced on this active sewage sludge
		Option 9 (Injection below land surface)	
		Option 10 (Incorporation into soil within 6 hours)	
		Option 11 (Covering active sewage sludge unit daily)	
	b.	* * * *	
		to reduce vector attraction properties of sewage sludge:	
4.		Ground Water Monitoring.	d on any any and arrive are related to 1 a
	a.	otherwise available for this active sewage sludge unit? Yes No	
		If "Yes", provide a copy of available ground water monitoring data. Also provide locations, the approximate depth to ground water, and the ground water monitor	de a written description of the well ing procedures used to obtain these

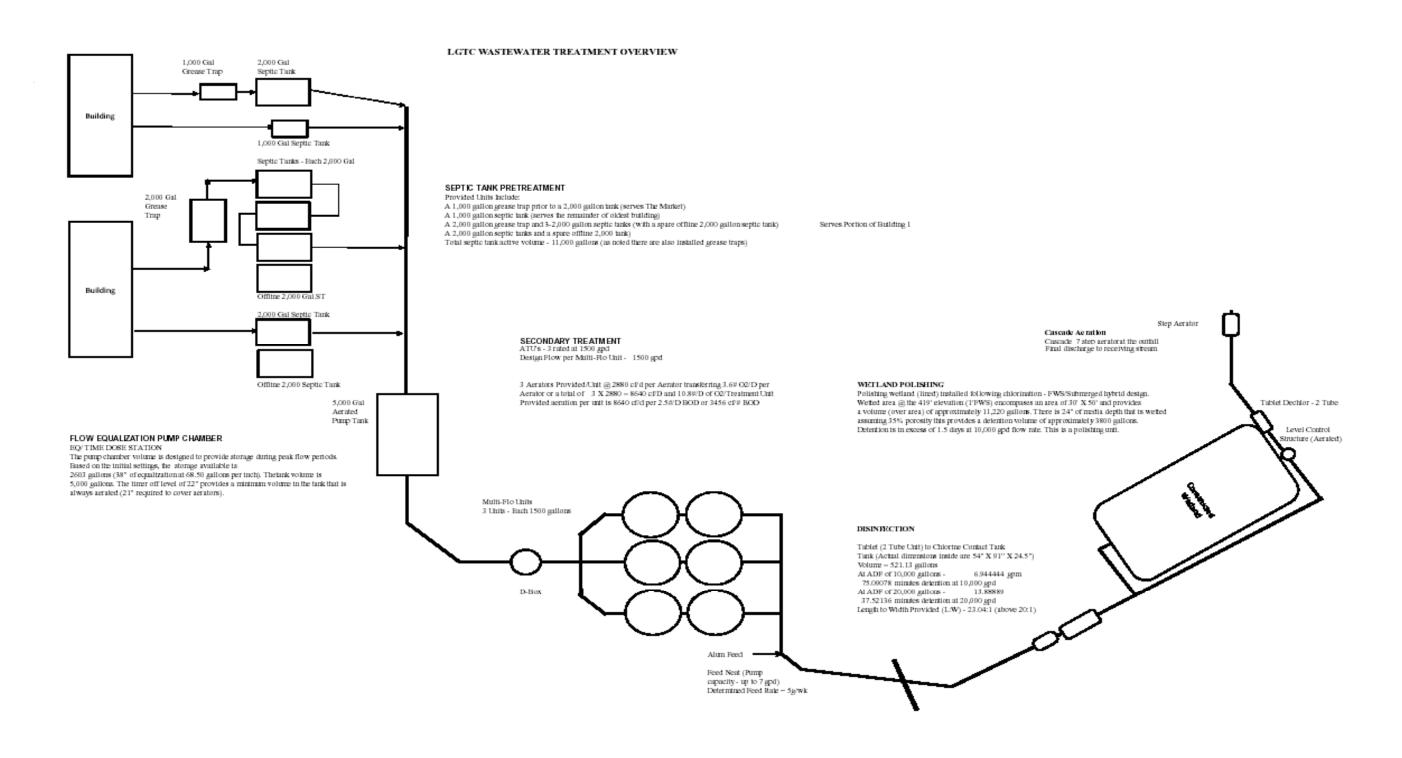
FACILITY NAME: Locust Grove Town Center			VPDES PERMIT NUMBER: VA0091961		
		data.			
	b.	51 5	for this active sewage sludge unit? ground water monitoring program with this application.		
	c.	Have you obtained a certification from a qualified grou sludge unit has not been contaminated? Yes If "Yes", submit a copy of the certification with this app	<del></del>		
5.	Ar	te-Specific Limits.  re you seeking site-specific pollutant limits for the sewage  Yes No If "Yes", submit information to supplication.	sludge placed on the active sewage sludge unit?  poort the request for site-specific pollutant limits with this		

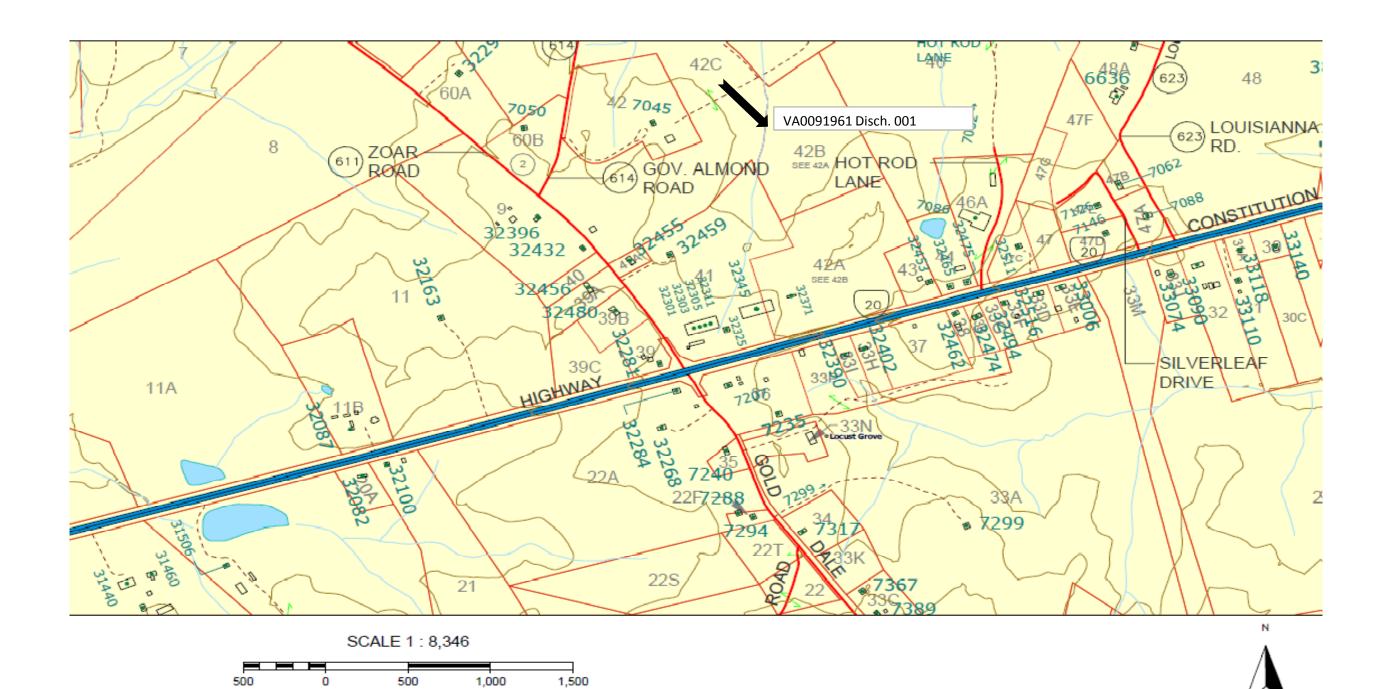
FA	CILITY NAME: Locust Grove Town Center VPDES PERMIT NUMBER: VA0091961				
4.	Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? Yes _x No _ If "Yes", describe:				
5.	Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:  a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.				
	b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.				
6.	Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.				
7.	Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation treatment, use or disposal the responsibility of a contractor? X Yes No				
	If "Yes", provide the following for each contractor (attach additional pages if necessary).				
	Name: Dabney & Crooks, Inc.				
	Mailing address:				
	Street or P.O. Box: P.O. Box 7783				
	City or Town: Fredericksburg State: VA Zip: 22404				
	Phone: (540 ) 373-0380				
	Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:				
	Contractor is treatment plant operator - Operator of Record is Doug Crooks Cert.# 367				
	If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).				
8.	Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no				

more than four and one-half years old. NA - Material removed is transported to another facility for additional treatment

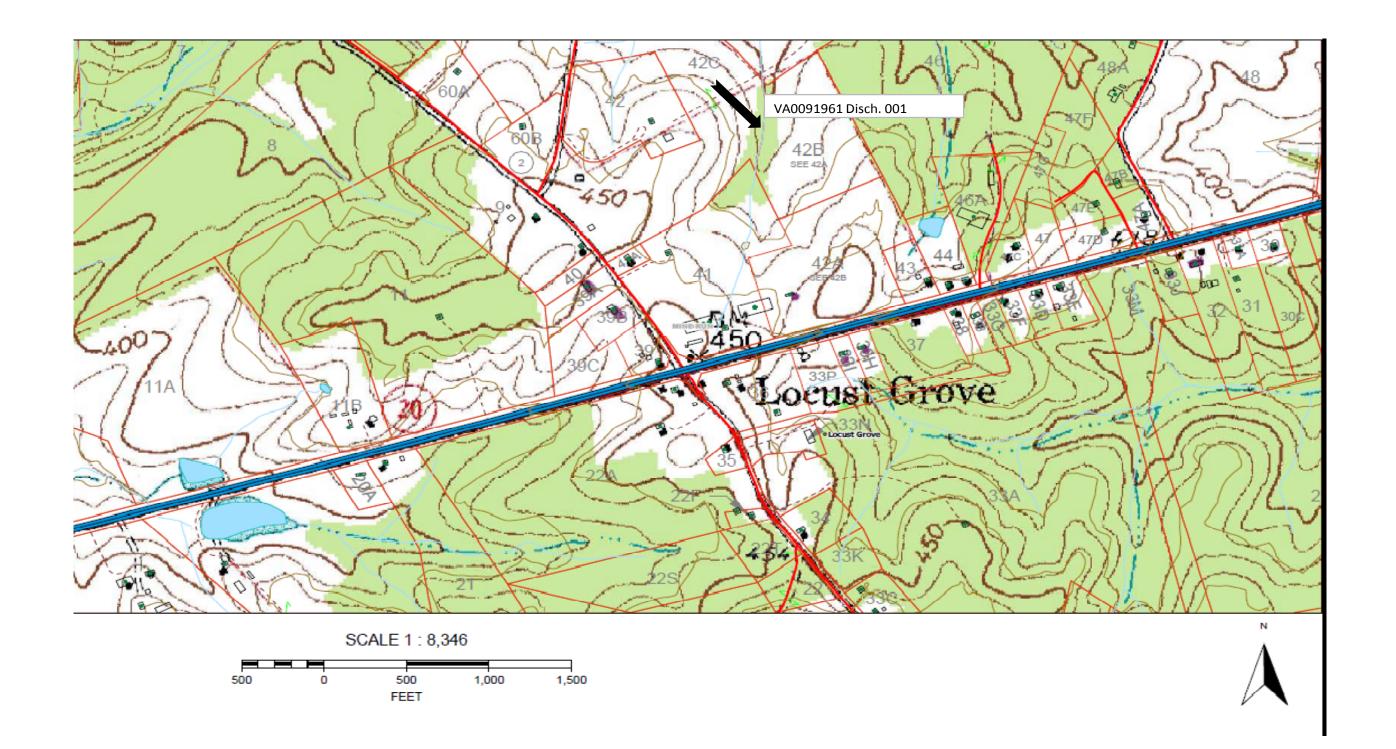
POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

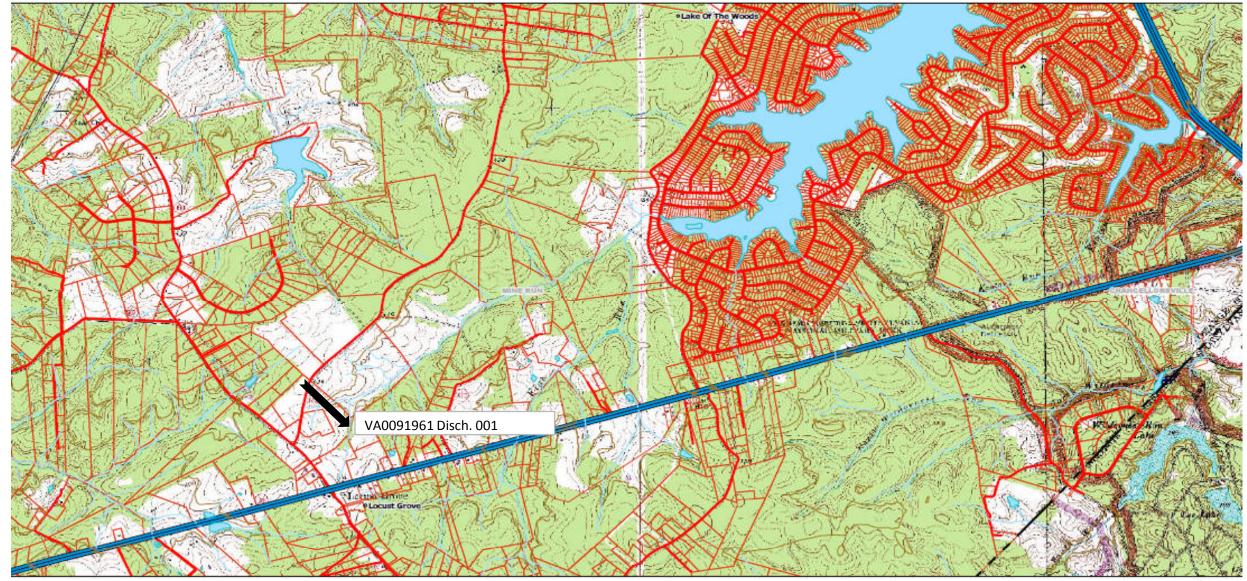


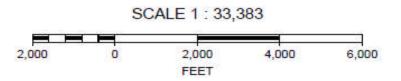




**FEET** 











SCALE 1:4,469 FEET

